

ABSTRACT OF THE DISCLOSURE

A piezoelectric vibrator unit comprises: at least one piezoelectric vibrator including: common internal electrode layers and segment internal electrode layers arranged alternately; piezoelectric layers, each interposed between adjacent pair of the common and segment internal electrode layers; and external electrodes formed on an exterior of the piezoelectric vibrator and electrically connected respectively to the common internal electrode layers and the segment internal electrode layers; and a fixing member to which a surface of the piezoelectric vibrator is fixed. The piezoelectric vibrator is displaceable in a direction perpendicular to a lamination direction in which the internal electrode layers and piezoelectric layers are laminated.

The magnitude of electric fields applied to the piezoelectric layers is non-uniform.